**Pseudocode**

Start the process

Get the complex value real and imag  
:class Complex()

:Complex(float real, float imag)

Get two new value this->real and this->imag

End of the function

: Complex operator + (const Complex &obj)

Get Complex temp

-Calculate temp.imag = this->imag + obj.imag

-Calculate temp.real = this->real + obj.real

Then return temp

End of the function

: Complex operator - (const Complex &obj)

Get Complex temp

-Calculate temp.imag = this->imag - obj.imag

-Calculate temp.real = this->real - obj.real

Then return temp

End of the function

: Complex operator \* (const Complex &obj)

Get Complex temp

-Calculate temp.real = this->real \* obj.real - this->imag \* obj.imag

-Calculate temp.imag = this->imag \* obj.real + obj.imag \* this->real

Then return temp

End of the function

: Complex operator / (const Complex &obj)

Get Complex temp

-Calculate temp.real = (this->real \* obj.real + this->imag \* obj.imag) / (obj.real \* obj.real + obj.imag \* obj.imag)

-Calculate temp.imag = (this->imag \* obj.real + this->real \* obj.imag) / (obj.real \* obj.real + obj.imag \* obj.imag)

Then return temp

End of the function

: Void display()

Get char ch

if(imag>=0)

then ch ='+'

else

ch = '-'

end if

print = this->real + ch + abs(this->imag) + "i"

end of the function

end class

: Start main() function

Get Complex a, b, c

Print "Enter the Real and Imaginary coefficient of the first complex number: "

Input a.real and a.imag

Print "Enter the Real and Imaginary coefficient of the second complex number: "

Input b.real and b.imag

Print "Addition Result: "

c = a+b

print c.display()

Print "Subtraction Result: "

c = a-b

print c.display()

Print "Multiplication Result: "

c = a\*b

print c.display()

Print "Division Result: "

c = a/b

print c.display()

end main function

Stop the process